

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A Hagood Avenue
Charleston, South Carolina 29403-5107
and
THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Office of Environmental Quality Control
Water Quality Certification and Wetlands Programs Section
2600 Bull Street
Columbia, South Carolina 29201

REGULATORY DIVISION

Refer to: P/N # 2007-0035-6IH

July 15, 2010

Pursuant to Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1341), an application has been submitted to the Department of the Army and the South Carolina Department of Health and Environmental Control by

City of Columbia
C/O Mr. Richard Bates
Environmental Permitting Consultants, Inc.
P.O. Box 3744
Greenville, SC 29608

for a permit to place 1,600 linear feet of pipe and fill material in

Unnamed Tributary of Wildcat Creek

in the existing St. Mark's Wood subdivision, between King Charles Road and Yorkshire Drive, Columbia, Richland County, South Carolina (Lat. 33.9778, Long. -80.9398)

In order to give all interested parties an opportunity to express their views

N O T I C E

is hereby given that written statements regarding the proposed work will be received by the **Corps** until

15 Days from the Date of this Notice,

and **SCDHEC** will receive written statements regarding the proposed work until

30 Days from the Date of this Notice

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of piping 1,600 linear feet (L.F.) of a jurisdictional tributary between King Charles Road and Yorkshire Drive within the St. Mark's Wood subdivision. The project is divided into five areas of impact: installation of 356 L.F. of 72" RCP (reinforced concrete pipe), 225 L.F. of 60" RCP, 359 L.F. of 54" RCP, 513 L.F. of 48" RCP, 147 L.F. of 42" RCP, and 2,881 cubic yards of backfill for pertinent structures (catch basins and junction boxes). The diameter of the pipe increases down slope. According to the applicant, impacts have been avoided and minimized by limiting the proposed work to the minimum necessary to accomplish the project. The applicant states that stabilization or restoration of the tributary would be unsuccessful due to high density development surrounding the impact area and insufficient area for a riparian

July 15, 2010

buffer. The applicant's stated project purpose is to alleviate lot flooding during major rainfall events. The applicant proposes to mitigate for these impacts by restoring 887 linear feet of an unnamed tributary of Crane Creek (Lat. 34.0556, -81.0367). The mitigation area is located offsite and outside of the 8-digit HUC from which the proposed impact area is located.

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**U.S. Army Corps of Engineers
ATTN: Jessica Hooten
1835 Assembly Street
Room 865 B-1
Columbia, South Carolina 29201**

The work shown on this application must be determined consistent with applicable provisions of the South Carolina Construction in Navigable Waters Permit Program. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. Persons wishing to comment or object to State navigable waters permit must submit all comments in writing to the S.C. Department of Health and Environmental Control at the above address within thirty (30) days of the date of this notice.

Preliminary review of the scope of work sought by this application indicates that State and Federal permits should be processed concurrently. If the Federal permit is issued in advance of the State's a special provision will be included in the Federal permit expressing the endorsement of the District Engineer to any revisions or conditions subsequently imposed by the State permit.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 0.15 acres of freshwater habitat well inland of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

The District Engineer has consulted the most recently available information and has determined that the project will have no effect on any Federally endangered, threatened, or proposed species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended).

July 15, 2010

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this public notice, please contact Jessica Hooten at 803-253-3916.

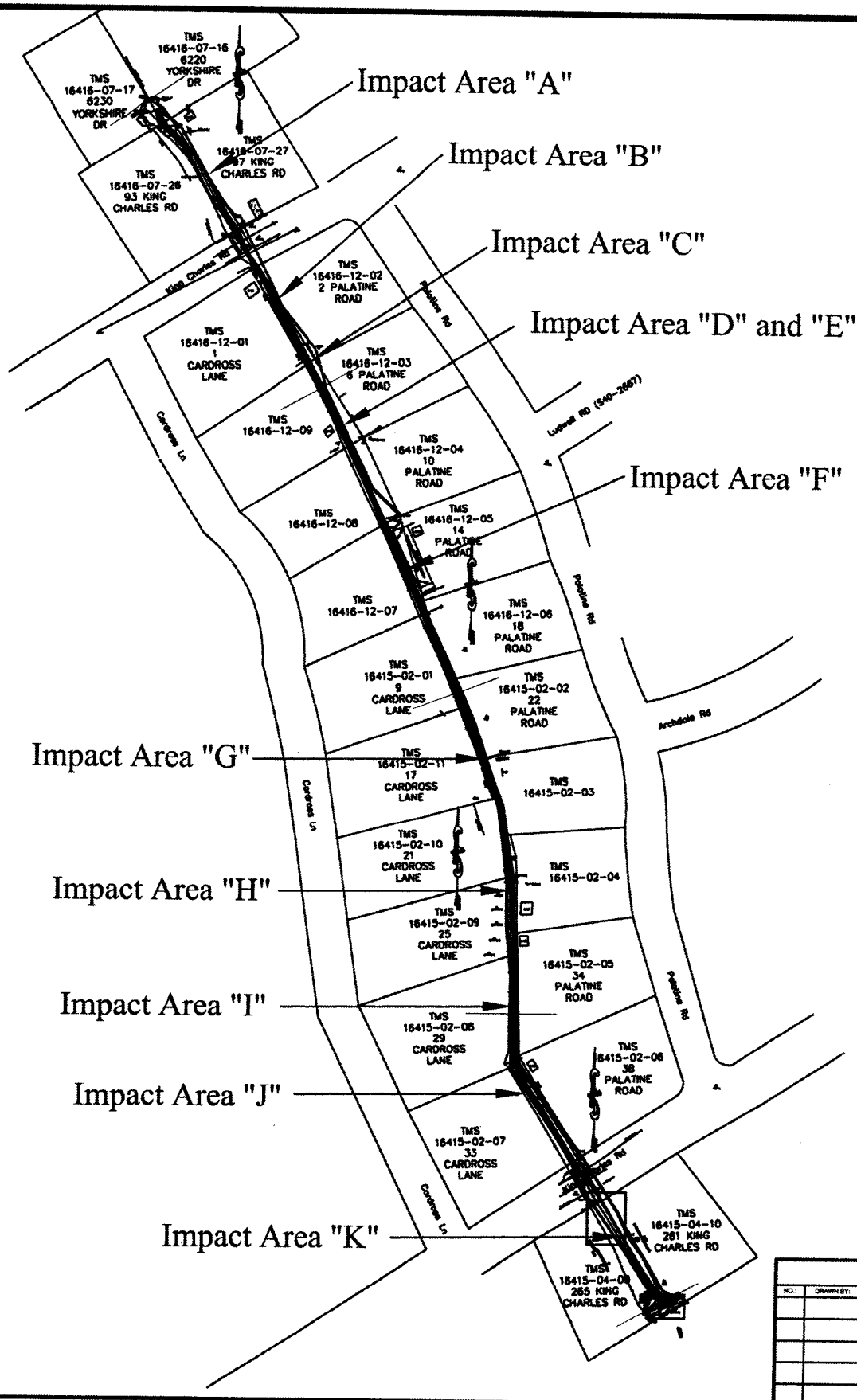
This is a detailed street map of the Columbia, South Carolina area. A large circular boundary is drawn around the central part of the city, with the word "Columbia" written in the middle of this circle. The map shows a dense network of streets, including major highways like I-95 (running vertically on the left), I-77 (running diagonally from the top left to the bottom right), and I-26 (running horizontally across the middle). Numerous local streets are labeled, such as Washington Rd, Newell Rd, Wallace St, Preston St, and many others. The map also shows various landmarks, including a large body of water (likely Lake Murray) on the left side, and several smaller bodies of water or parks. The overall layout is a typical urban street map with a focus on the central city area.

1/2 mile radius



DRAWN BY:	SNH
DATE:	16june2010
EPC PROJECT NO.:	10pcn007

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 1 OF 18



REVISIONS		
NO.	DRAWN BY:	COMMENTS:

ENVIRONMENTAL
PERMITTING
CONSULTANTS,

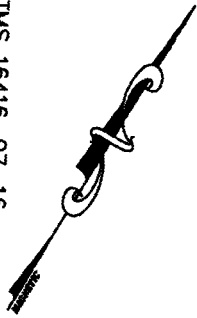
GRAPHIC SCALE

87.5 0 87.5 175

1 inch = 175 feet

Post Office Box 3744 Greenville, SC 29608 Phone: (864) 271-3040 Fax: (864) 235-9299	DRAWN BY: ihb DATE: 25jan2006 EPC PROJECT NO.: 10pcn007
--	---

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 3 OF 18



TMS 16416-07-16
6220 YORKSHIRE DRIVE
Nolo M. Anderson

STA 0+00
CONST. 4'X8' CATCH BASIN
(TYPE 9) W/MH
CONNECT TO EXISTING STORM DRAIN
REMOVE HEADWALL
THROAT ELEV=218.4'
INV (IN)=211.5'
INV (18)=215.5'
INV (OUT)=21.34'

TMS 16416-07-27
97 KING CHARLES ROAD
Neson & Gowski Srisikondo

Existing Road
with Culvert

STA 1+87
CONST. 4'X8' CATCH BASIN
(TYPE 10) W/MH
THROAT ELEV = 221.6'
INV (IN) = 212.5'
INV (OUT) = 212.4'

STA 0+08.15' RT
12 LF-18" RCP (BEVELED END)
2 TONS-RIP RAP
INV=215.7'

TMS 16416-07-17
6230 YORKSHIRE DRIVE
James H. & Jennifer M. Lundy

STA 0+19
CONNECT TO EXISTING
18" RCP STORM DRAIN
INV=214.2'±

TMS 16416-07-26
93 KING CHARLES ROAD
Barton W. Fordham

STA 1+80
6" WATER MAIN TO BE
RAISED BY CITY FORCES

BRIDGE DEMOLITION
45 SY ROAD CONSTRUCTION
165 SY ASPHALT RESURFACING
59 CY FLOWABLE FILL

Impact Area "A"
72" RCP
Water of the U.S. Stream
178.26 L.F./ 534.78 sq. ft.

GRAPHIC SCALE
1 inch = 30 feet

REVISIONS

NO.	DATE	BY	REVISION
1	16JUNE2010	Clarified	Waters of US
2	26JUN2006	hb	
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 4 OF 18

ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.

SMH
RIM = 224.09'
INV = 214.41'

STA 2+18
CONST. 4'XB' CATCH BASIN
(TYPE 18) W/MH
THROAT ELEV=221.6'
INV (IN)=212.8'
INV (OUT)=212.7'
8" SS INV=214.6'±
(SEE SPECIAL NOTES)

Impact Area "B"
60" RCP
Waters of the U.S. Stream
124.03 L.F./ 372.09 sq. ft.

TMS 16416-12-02
2 PALATINE ROAD
C.J. & Janet W. Cambee

4+00
SHEET #4

STATION
MATCHLINE

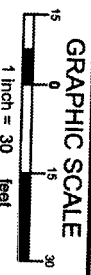
STA 2+53
CONST. 4'XB' CATCH BASIN
(TYPE 9) W/MH
THROAT ELEV=221.0'
INV (IN)=213.1'
INV (OUT)=213.0'

STA 3+56
CONST. 4'XB' JUNCTION BOX W/MH
THROAT ELEV=222.9'
14 LF-18" RCP
INV (IN) =
INV (18)=220.4'±
INV (OUT)=213.6'

Impact Area "C"
60" RCP
Water of the U.S. Stream
41.88 L.F./ 125.64 sq. ft.

KING CHARLES ROAD
(CITY)
Existing Road
with Culvert

TMS 16416-12-01
1 CARDROSS LANE
Lonnie & Mobile Overby



REVISIONS

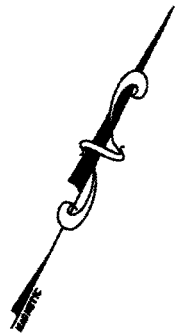
NO.	DATE	REVISION
1	16 June 2010	Charlottesville Waters of US
2	29 Jan 2006	hjb
3	10 Dec 2007	hjb

ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.

Post Office Box 3744
Greenville, SC 29608
Phone: (864) 271-3040
Fax: (864) 235-8299

DRAWN BY: hjb
DATE: 29 Jan 2006
EPC PROJECT NO.: 10pcr007

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 5 OF 18



TMS 16416-12-03
6 PALATINE ROAD
Mark L. & Katherine M. Connolly

4+00
SHEET #3

Impact Area "E"
54" RCP
Waters of the U.S. Stream
15.8 L.F. / 47.4 sq. ft.

TMS 16416-12-04
10 PALATINE ROAD

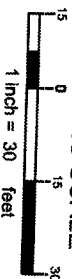
Impact Area "D"
60" RCP
Waters of the U.S. Stream
184.2 L.F. / 552.6 sq. ft.

STATION
MATCHLINE

TMS 16416-12-09
3 CARDROSS LANE
Robert L. Giles Jr.

TMS 16416-12-08
5 CARDROSS LANE
Talley A. Lattimore

GRAPHIC SCALE



REVISIONS

NO.	DATE	DESCRIPTION
1	10/20/10	Clarified Waters of US

ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.

Post Office Box 3744
Greenville, SC 29606
Phone: (864) 235-9280
Fax: (864) 235-9289

DRAWN BY: JHB
DATE: 25/02/2009
EPC PROJECT NO.: 10epc007

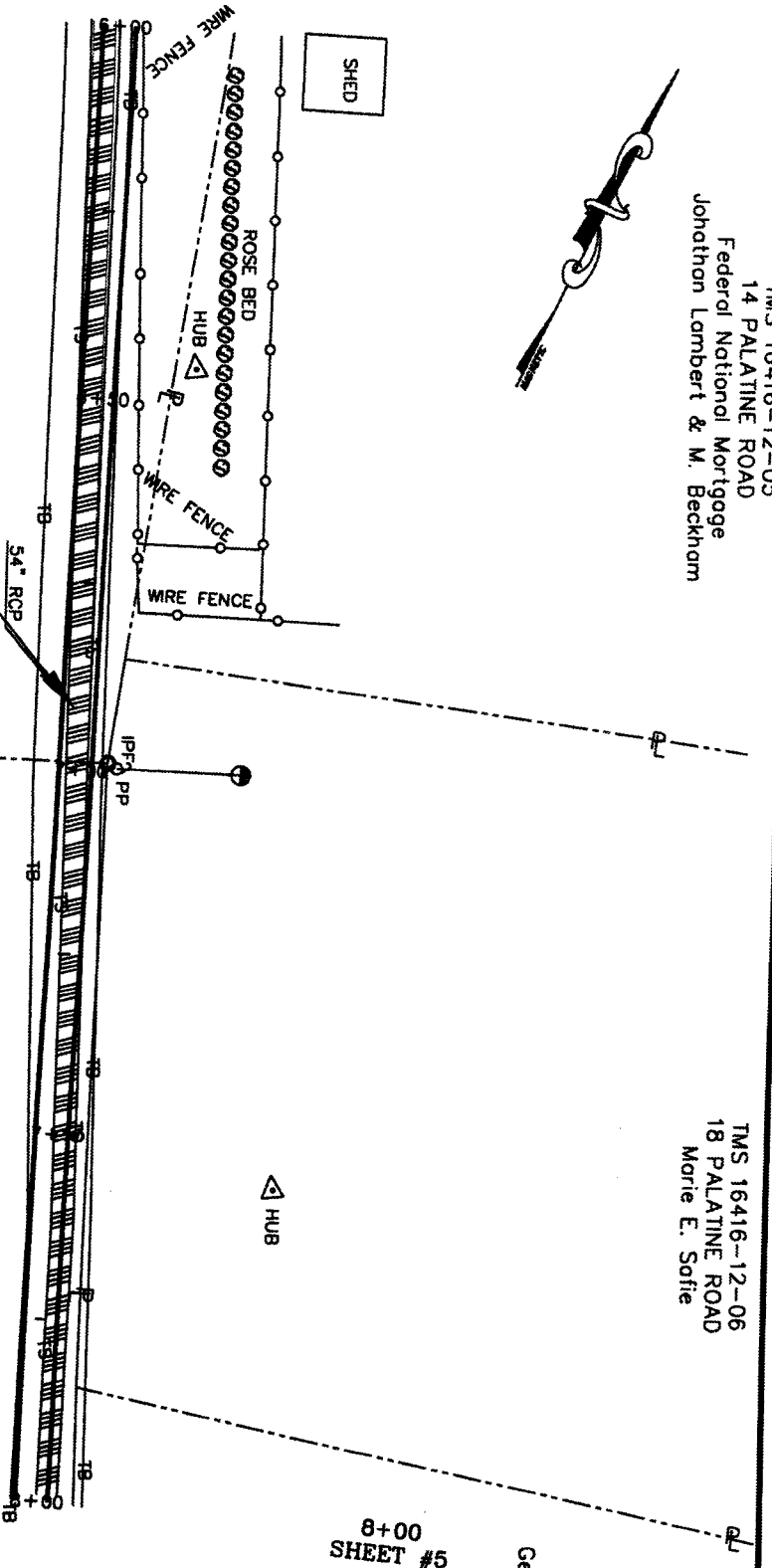
STA 5+81
CONST. CATCH BASIN (TYPE) W/MH
THROAT ELEV=225.6'
8 LF-24" RCP @ 3.75%
1-TON RIP-RAP
INV (IN)=217.0'
INV (24")=220.0'
INV (OUT)=216.5'

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 6 OF 18

TMS 16416-12-05
14 PALATINE ROAD
Federal National Mortgage
Jonathan Lambert & M. Beckham

TMS 16416-12-06
18 PALATINE ROAD
Marie E. Safie

TMS 16415-02-02
22 PALATINE ROAD
George M. & Elizabeth B. Estes



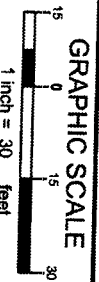
Impact Area "F"
54" RCP
Waters of the U.S. Stream
200.15 L.F. / 600.45 sq. ft.

TMS 16416-12-07
5 CARDROSS LANE
Tolley A. Lottimore

TMS 16415-02-01
9 CARDROSS LANE
John C. Gilbert

TMS 16415-02
17 CARDROSS L
Kenneth L. & Donno

ENVIRONMENTAL PERMITTING CONSULTANTS, INC.



Post Office Box 3744
Greenville, SC 29608
Phone: (864) 271-5040
Fax: (864) 235-9299

DRAWN BY: Jhb
DATE: 25Jan2006
EPC PROJECT NO.: 10epc007

REVISIONS

NO.	DATE	BY	REVISIONS
1	16June2010	CSH	Clarified Waters of US

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 7 OF 18

Impact Area "G"
54" RCP
Waters of the U.S. Stream
142.9 L.F. / 428.7 sq.ft.

TMS 16415-02-02
 22 PALATINE ROAD
 George M. & Elizabeth B. Estes

CAUTION!
 NOTIFY SCE&G PRIOR
 TO CONSTRUCTION

8+00
 SHEET #4

HUB

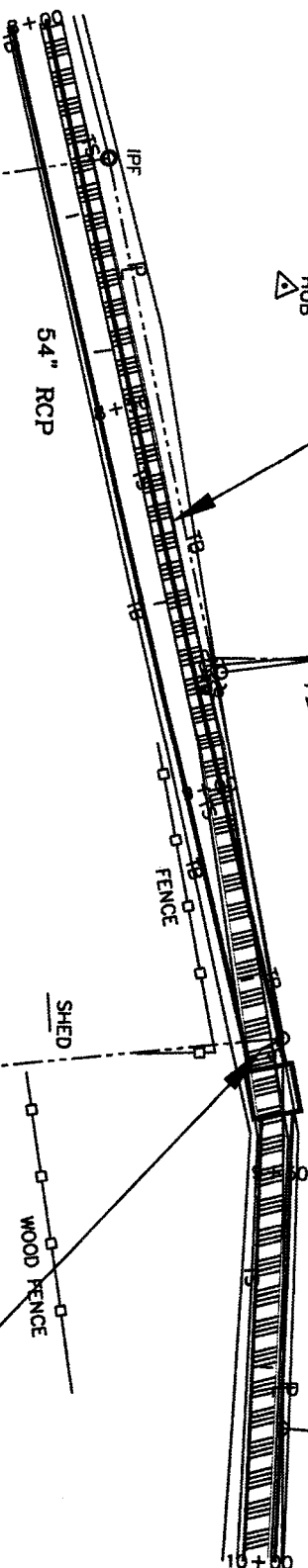
GUY WIRE

WOOD FENCE

SHED

STA 9+40
 CONST. CATCH BASIN (TYPE 9)
 W/MH
 THROAT ELEV=228.6'
 INV (IN)=220.7'
 INV (OUT)=219.0'

48" RCP



STATION
 MATCHLINE

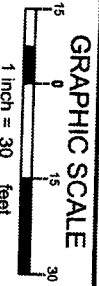
TMS 16415-02-01
 9 CARDROSS LANE
 John C. Gilbert

TMS 16415-02-11
 17 CARDROSS LANE
 Kenneth L. & Donna J. Fenchel

TMS 16415-02-10
 21 CARDROSS LANE
 Kenneth L. & Donna J. Fenchel

Impact Area "H"
48" RCP
Waters of the U.S. Stream
57.06 L.F. / 171.18 sq. ft.

**ENVIRONMENTAL
 PERMITTING
 CONSULTANTS, INC.**



Post Office Box 3744
 Greenville, SC 29608
 Phone: (864) 271-5040
 Fax: (864) 255-8289

DRAWN BY: Jhb
 DATE: 29Jun2008
 EPC PROJECT NO.: 10epc007

REVISIONS

NO.	DATE	BY	REVISION
1	16June2010	CSNH	Clarified Waters of US

SAC-2007-0035-6IH
 ST. MARK'S WOOD SUBDIVISION
 RICHLAND COUNTY, SC
 JULY 13, 2010
 SHEET 8 OF 10



TMS 16415-02-04
30 PALATINE DRIVE
April S. Gynn

TMS 16415-02-05
34 PALATINE ROAD
Bernard R. & Janey L. Scully

CAUTION!
NOTIFY SCE&G PRIOR
TO CONSTRUCTION

CAUTION!
SEE SPECIAL NOTES

12+00
SHEET #8

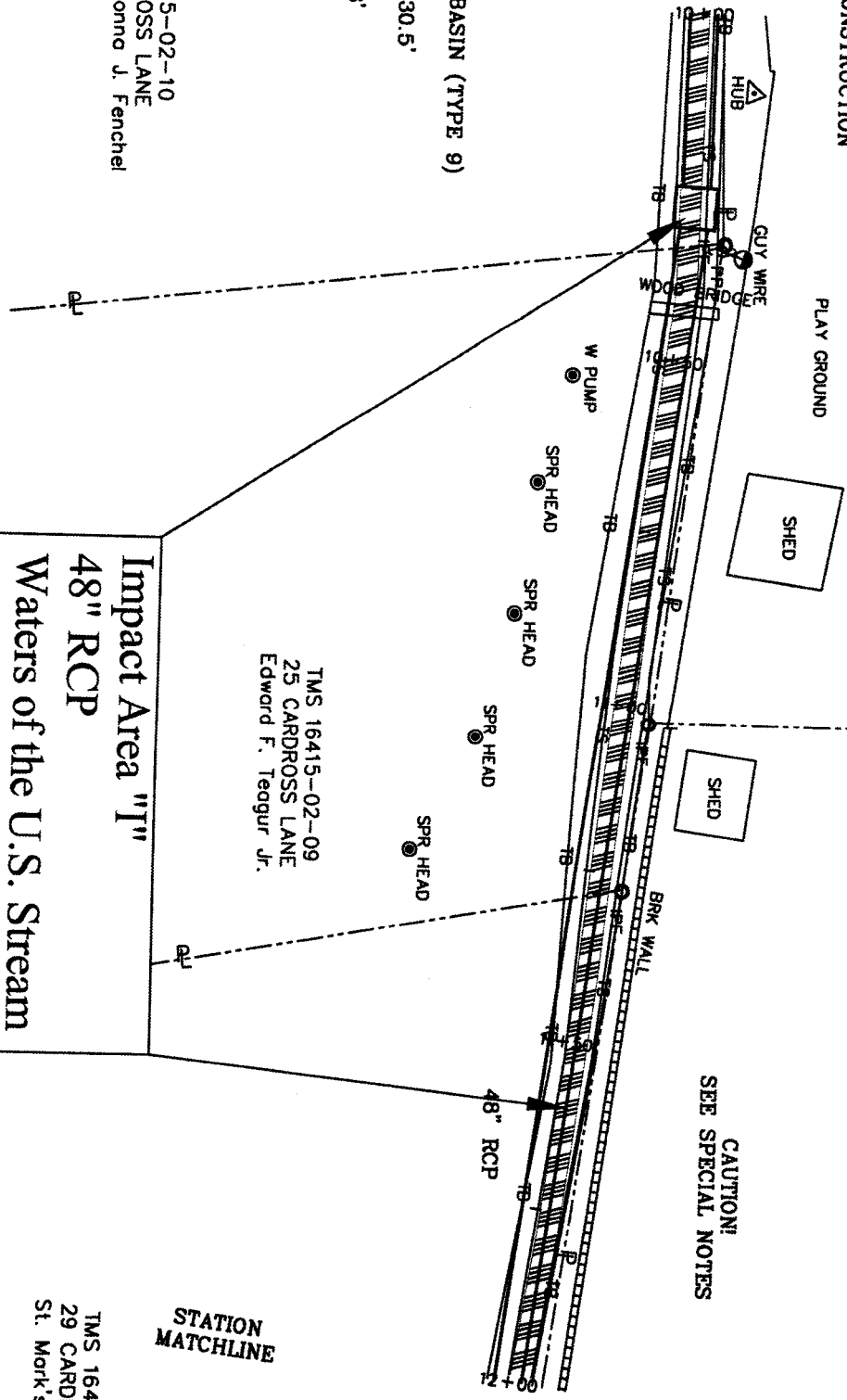
STA 10+28
CONST. CATCH BASIN (TYPE 9)
W/MH
THROAT ELEV=230.5'
INV (IN)=223.1'
INV (OUT)=221.6'

TMS 16415-02-10
21 CARDROSS LANE
Kenneth L. & Donno J. Fenchel

TMS 16415-02-09
25 CARDROSS LANE
Edward F. Teagur Jr.

TMS 16415-02-08
29 CARDROSS LANE
St. Mark's Wood Ltd.

Impact Area "I"
48" RCP
Waters of the U.S. Stream
200.03 L.F. / 600.09 sq. ft.



GRAPHIC SCALE
1 inch = 30 feet

REVISIONS

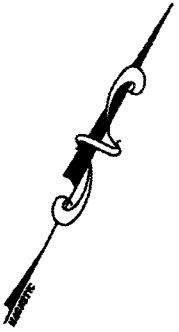
NO.	DATE	DESCRIPTION
1	16 June 2010	Clarified Waters of US
2	20 June 2010	INB
3	20 June 2010	INB
4	20 June 2010	INB
5	20 June 2010	INB
6	20 June 2010	INB
7	20 June 2010	INB
8	20 June 2010	INB
9	20 June 2010	INB
10	20 June 2010	INB
11	20 June 2010	INB
12	20 June 2010	INB
13	20 June 2010	INB
14	20 June 2010	INB
15	20 June 2010	INB
16	20 June 2010	INB
17	20 June 2010	INB
18	20 June 2010	INB
19	20 June 2010	INB
20	20 June 2010	INB
21	20 June 2010	INB
22	20 June 2010	INB
23	20 June 2010	INB
24	20 June 2010	INB
25	20 June 2010	INB
26	20 June 2010	INB
27	20 June 2010	INB
28	20 June 2010	INB
29	20 June 2010	INB
30	20 June 2010	INB
31	20 June 2010	INB
32	20 June 2010	INB
33	20 June 2010	INB
34	20 June 2010	INB
35	20 June 2010	INB
36	20 June 2010	INB
37	20 June 2010	INB
38	20 June 2010	INB
39	20 June 2010	INB
40	20 June 2010	INB
41	20 June 2010	INB
42	20 June 2010	INB
43	20 June 2010	INB
44	20 June 2010	INB
45	20 June 2010	INB
46	20 June 2010	INB
47	20 June 2010	INB
48	20 June 2010	INB
49	20 June 2010	INB
50	20 June 2010	INB
51	20 June 2010	INB
52	20 June 2010	INB
53	20 June 2010	INB
54	20 June 2010	INB
55	20 June 2010	INB
56	20 June 2010	INB
57	20 June 2010	INB
58	20 June 2010	INB
59	20 June 2010	INB
60	20 June 2010	INB
61	20 June 2010	INB
62	20 June 2010	INB
63	20 June 2010	INB
64	20 June 2010	INB
65	20 June 2010	INB
66	20 June 2010	INB
67	20 June 2010	INB
68	20 June 2010	INB
69	20 June 2010	INB
70	20 June 2010	INB
71	20 June 2010	INB
72	20 June 2010	INB
73	20 June 2010	INB
74	20 June 2010	INB
75	20 June 2010	INB
76	20 June 2010	INB
77	20 June 2010	INB
78	20 June 2010	INB
79	20 June 2010	INB
80	20 June 2010	INB
81	20 June 2010	INB
82	20 June 2010	INB
83	20 June 2010	INB
84	20 June 2010	INB
85	20 June 2010	INB
86	20 June 2010	INB
87	20 June 2010	INB
88	20 June 2010	INB
89	20 June 2010	INB
90	20 June 2010	INB
91	20 June 2010	INB
92	20 June 2010	INB
93	20 June 2010	INB
94	20 June 2010	INB
95	20 June 2010	INB
96	20 June 2010	INB
97	20 June 2010	INB
98	20 June 2010	INB
99	20 June 2010	INB
100	20 June 2010	INB

ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 8 OF 10

TMS 16415-02-05
34 PALATINE ROAD
Bernard R. & Janey L. Scully

TMS 16415-02-06
38 PALATINE ROAD
Thomas I. & Lauren A. Crooks



12+00
SHEET #5

CAUTION!
NOTIFY SCE&G
PRIOR TO CONSTRUCTION

STA 12+66
CONST. CATCH BASIN (TYPE 9)
W/MH
THROAT ELEV=234.6'
INV (IN)=229.5'
INV (OUT)=227.8'

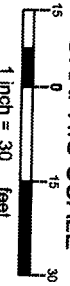
STATION
MATCHLINE

TMS 16415-02-08
29 CARDROSS LANE
St. Mark's Wood Ltd.

TMS 16415-02-07
33 CARDROSS LANE
John B. & Marlon C. Allen

Impact Area "J"
48" RCP
Waters of the U.S. Stream
201.37 L.F. / 604.11 sq. ft.

GRAPHIC SCALE



REVISIONS

Post Office Box 3744
Greenville, SC 29606
Phone (864) 271-5040
Fax (864) 255-9289

DRAWN BY: jhb
DATE: 25jan008
EPC PROJECT NO.: 10px007

ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 10 OF 18

TMS 16415-04-10
261 KING CHARLES ROAD
St. Mark's Wood Ltd.

KING CHARLES ROAD
(S40-2526)

STA 14+45
CONST. CATCH BASIN
(TYPE 18) W/MH
THROAT ELEV=240.7'
INV (IN)=232.8'
INV (18")=237.3'±
INV (OUT)=232.3'

STA 16+00
CONST. HEADWALL
W/WINGWALLS
END CONSTRUCTION
INV=233.7'
2 TON RIP-RAP

STA 14+11
CONST. CATCH BASIN
(TYPE 18) W/MH
THROAT ELEV=240.7'
INV (IN)=232.1'
INV (18")=237.3'±
INV (OUT)=232.0'

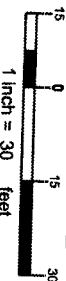
BRIDGE DEMOLITION
45 SY ROAD CONSTRUCTION
165 SY ASPHALT RESURFACING
35 CY FLOWABLE FILL

STA 14+45
6 LF-18" RCP
CONNECT TO EXISTING
STORM DRAIN
INV=237.36'

STA 14+53
CONST. CATCH BASIN
(TYPE 9) W/MH
THROAT ELEV=240.4'
INV(IN)=233.0'
INV(OUT)=232.5'

Existing Road
with Culvert

GRAPHIC SCALE



REVISIONS

NO.	DATE	BY	REVISIONS
1	16jun2010	CM	Clarified Waters of US
2	25jun2006	Jhb	
3			
4			
5			
6			
7			
8			
9			
10			

Post Office Box 3744
Greenville, SC 29608
Phone: (864) 271-3040
Fax: (864) 235-9299

DRAWN BY: Jhb
DATE: 25jun2006
EPC PROJECT NO.: 10pcn007

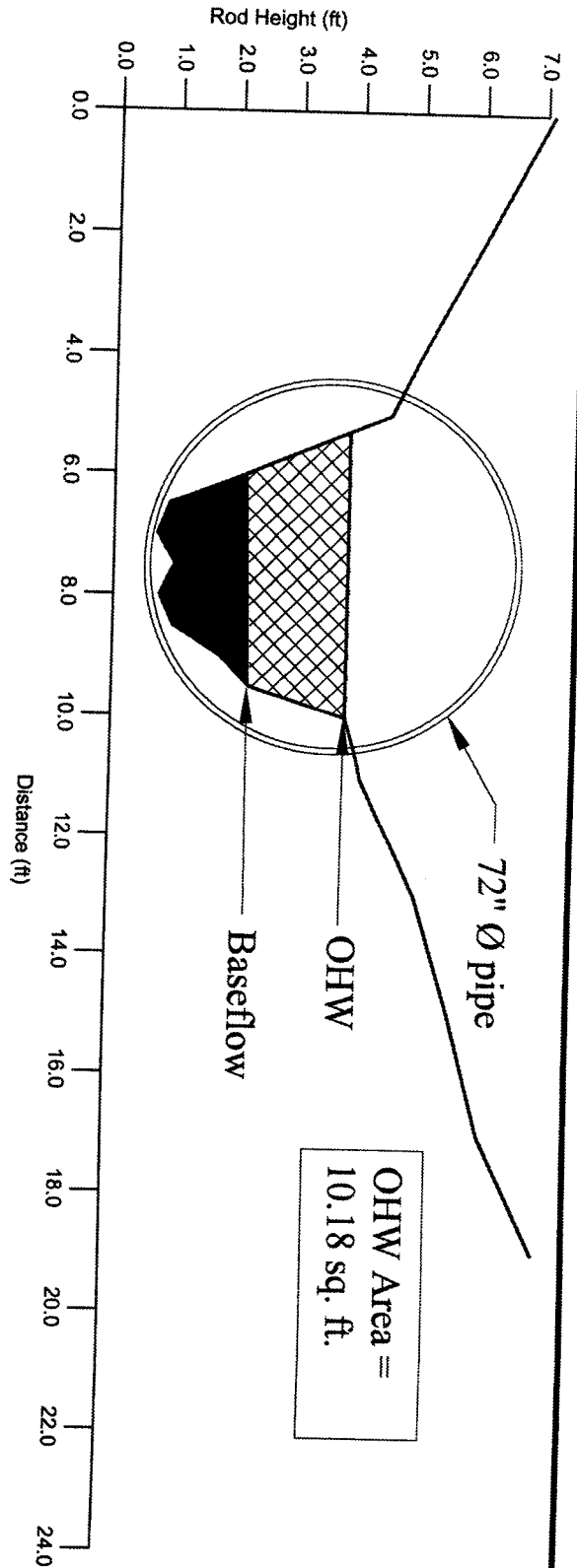
Impact Area "K"
42" RCP
Waters of the U.S. Stream
146.35 L.F. / 439.05 sq. ft.

ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.

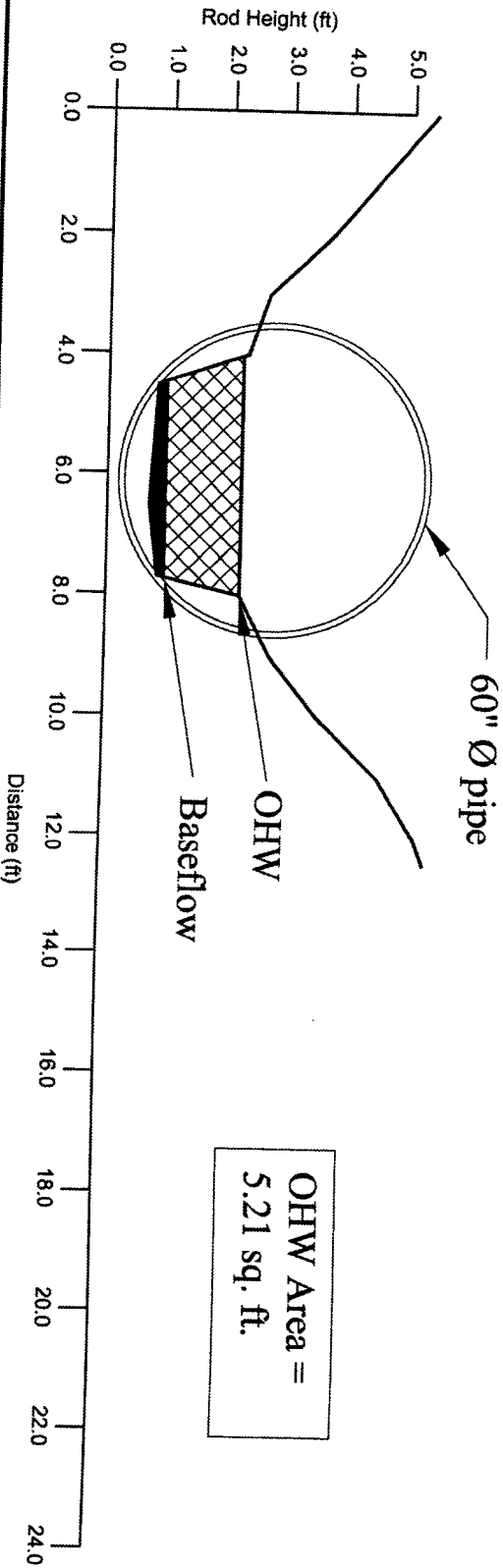
SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010

SHEET 11 OF 40

IMPACT AREA "A"



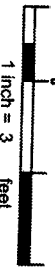
IMPACT AREA "B"



ENVIRONMENTAL PERMITTING

CONSULTANTS, INC.

GRAPHIC SCALE



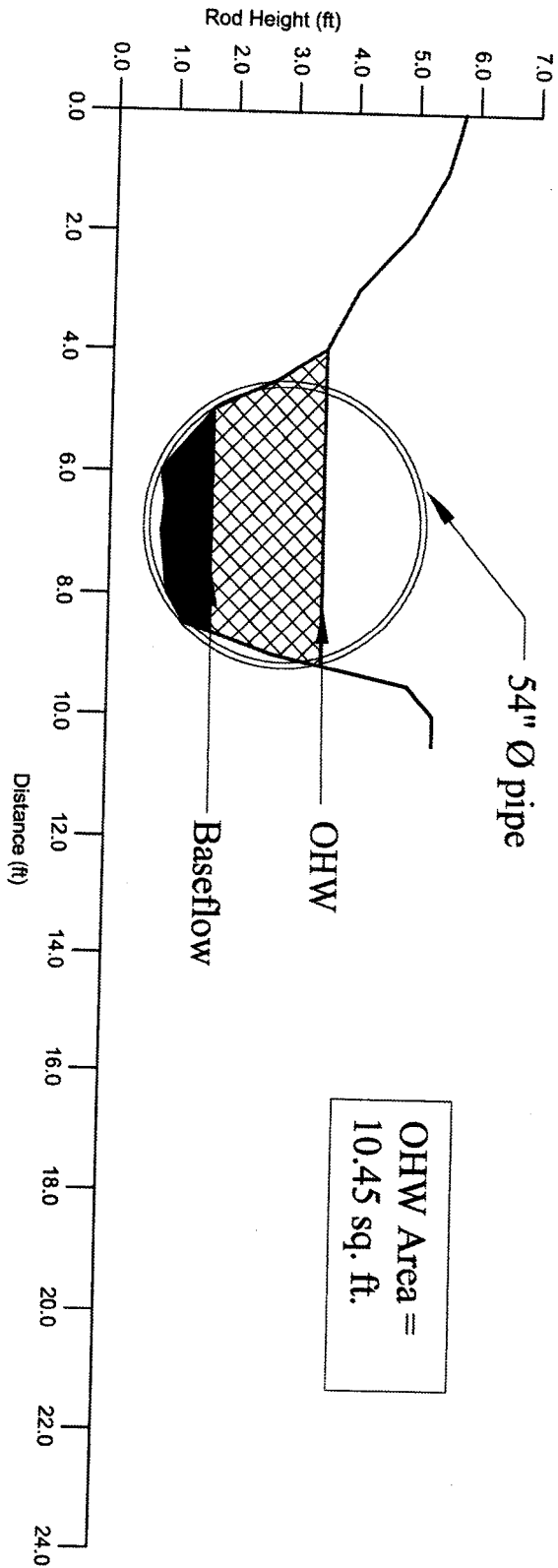
REVISIONS

Field Office Box 3744 Greenville, SC 29608 Phone: (864) 271-3040 Fax: (864) 235-9299	DRAWN BY: DATE: 08Jun2010 anh
EPC PROJECT NO.: 10epc007	

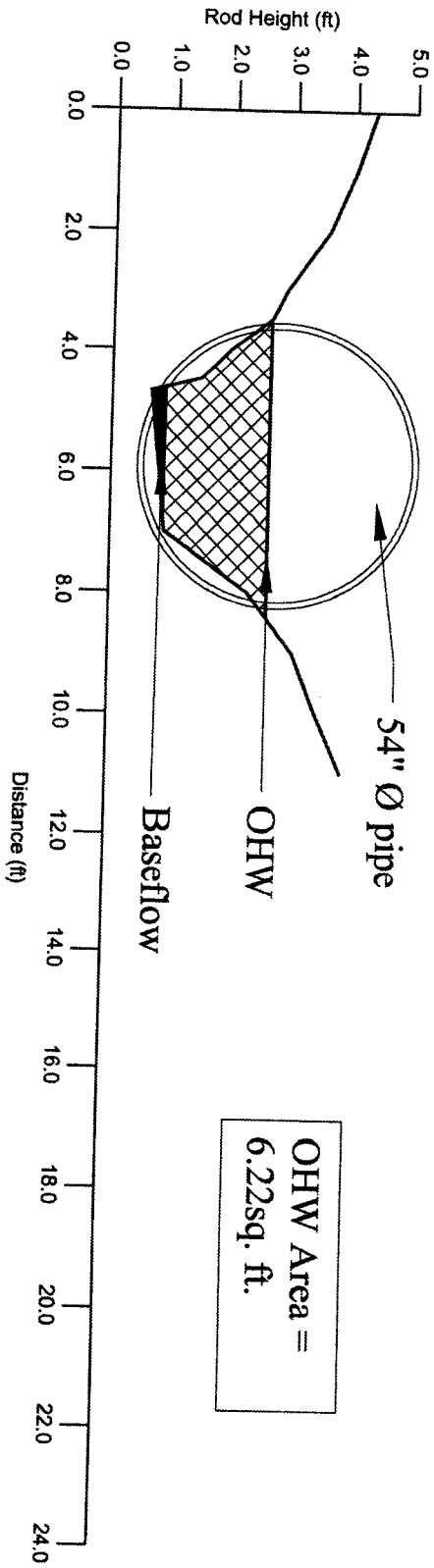
NO.	DESCRIPTION	DATE
1	Sheets 11-13 replace	
2	Sheet 11 of 05pcn128	

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010

IMPACT AREA "E"



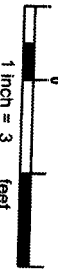
IMPACT AREA "F"



ENVIRONMENTAL PERMITTING

CONSULTANTS, INC.

GRAPHIC SCALE



Post Office Box 3744
Greenville, SC 29608
Phone: (864) 271-3040
Fax: (864) 235-9299

DRAWN BY:
DATE:
EPC PROJECT NO.:
08/June2010
10pp007

REVISIONS

NO.	DESCRIPTION	DATE
1	Sheets 11-13 replace	
2	Sheet 11 of 05pen128	

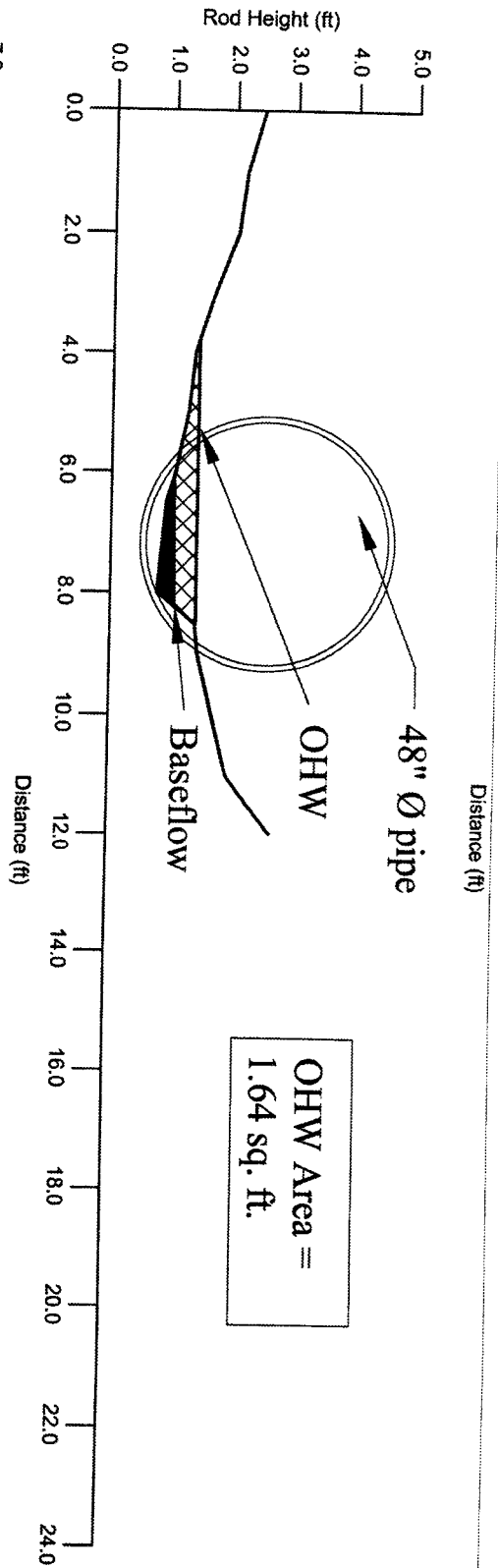
SAC-2007-0035-6IH

ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC

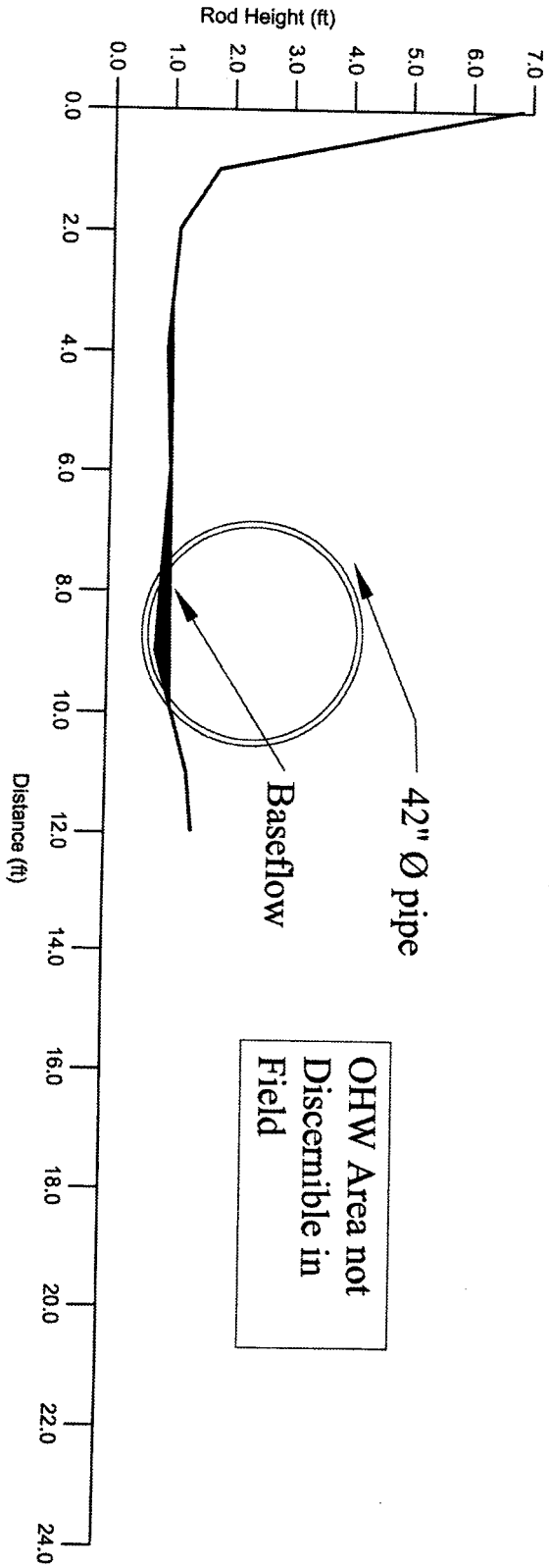
JULY 13, 2010

SHEET 12 OF 40

IMPACT AREA "H"

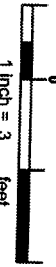


IMPACT AREA "K"



**ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.**

GRAPHIC SCALE



Post Office Box 3744
Greenville, SC 29608
Phone: (864) 271-3040
Fax: (864) 235-9299

DRAWN BY:	snh
DATE:	09june2010
EPC PROJECT NO.:	10000007

.....

1

REVISIONS

10

L

SAC-2007-0035-6IH

ST. MARK'S WOOD SUBDIVISION

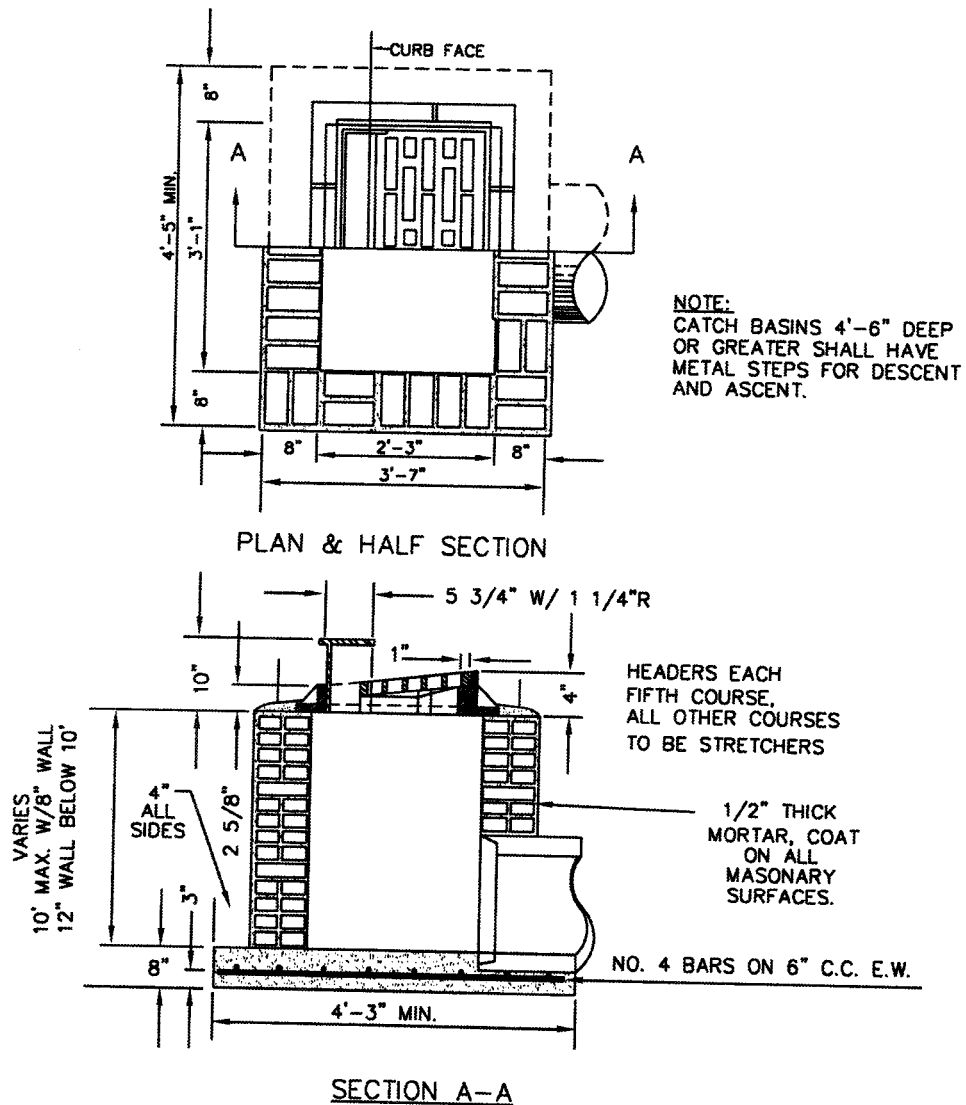
RICHLAND COUNTY, SC

JULY 13, 2010

SHEET 11 OF 10

CATCH BASIN TYPE I

(NOT TO SCALE)



SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 15 OF 18



CITY OF COLUMBIA DEPARTMENT
OF UTILITIES AND ENGINEERING

STANDARD DETAIL SD #XX

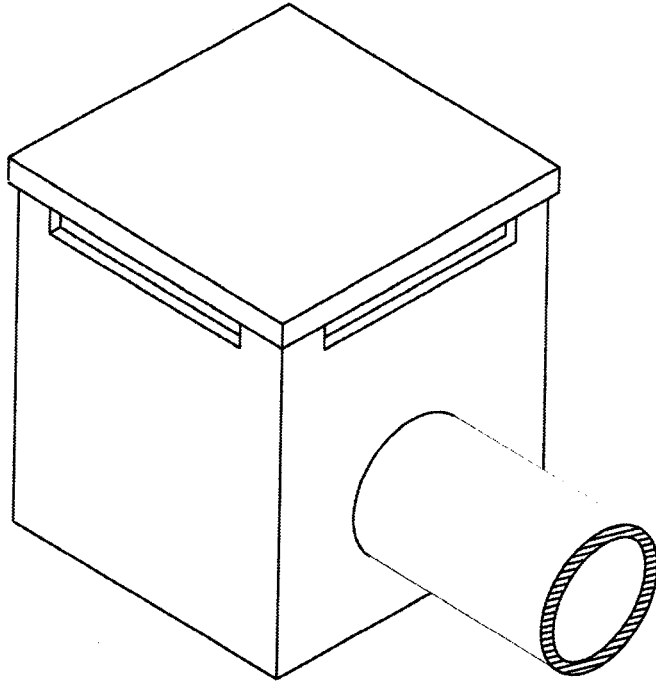
CITY ENGINEER

DATE:
10-31-06

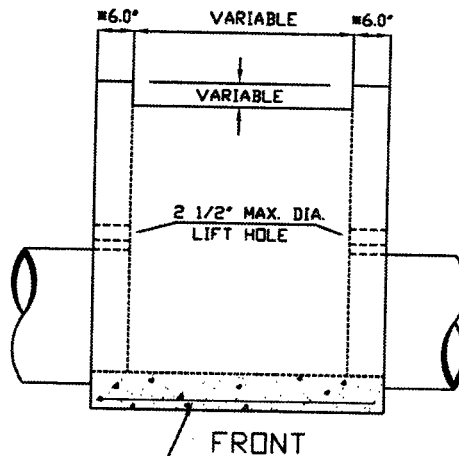
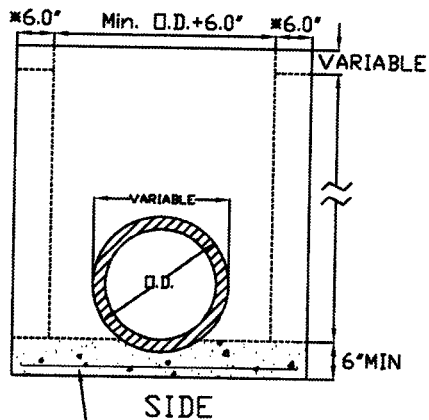
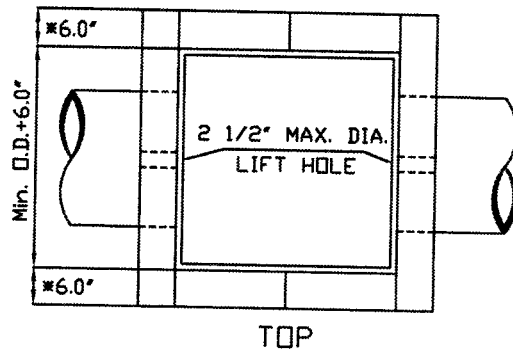
DRAWN BY:
JPM

CATCH BASIN TYPE 9

(NOT TO SCALE)



ISOMETRIC VIEW



NO. 4 REBAR 12" O.C. WITH 1 1/2" MIN. COVER ALL DIRECTIONS

* { 6.0" For Concrete
8.0" For Brick

SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 16 OF 18

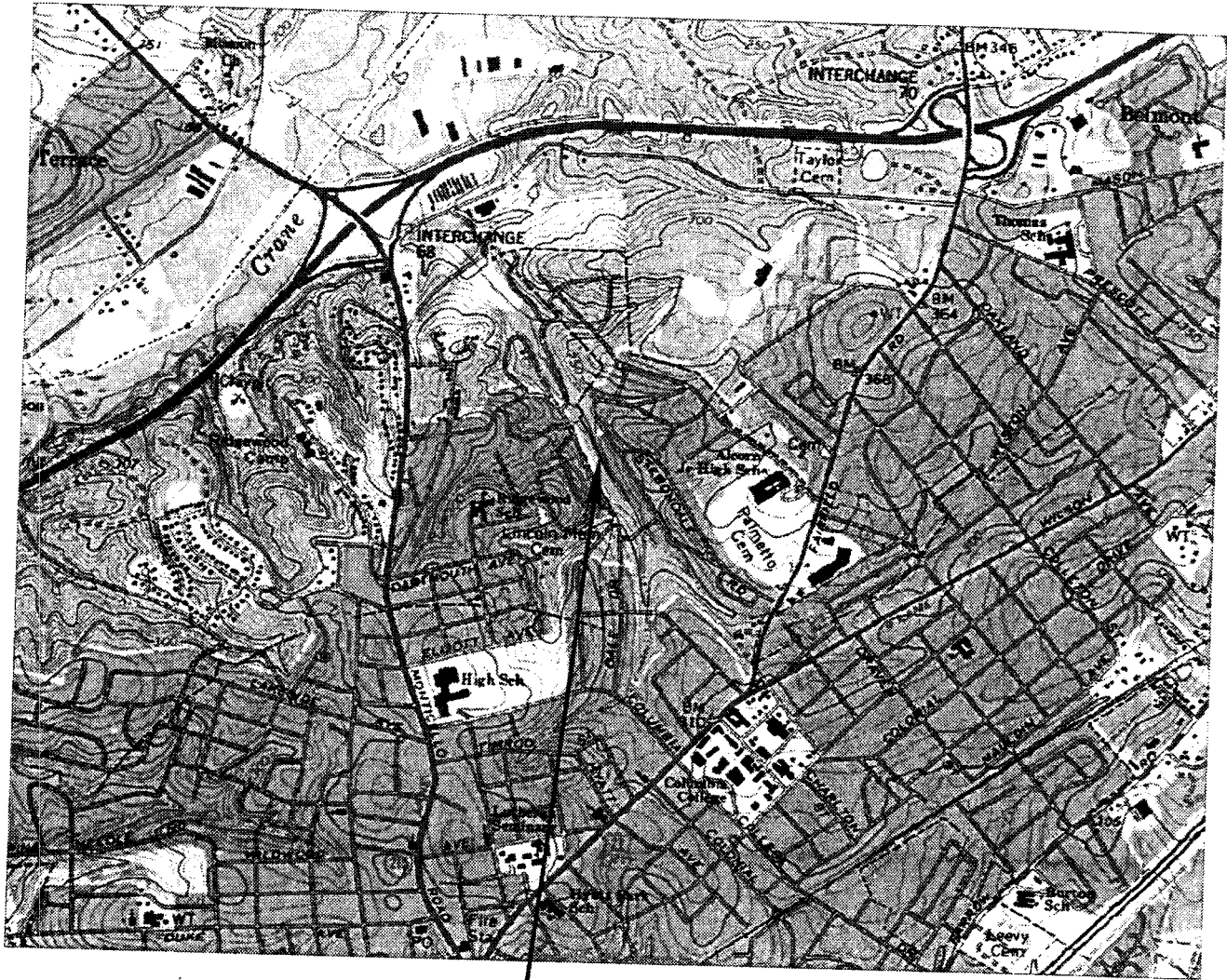


CITY OF COLUMBIA
DEPARTMENT OF UTILITIES AND ENGINEERING

STANDARD DETAIL SD #XX

CITY ENGINEER

DATE: MARCH 6, 2006



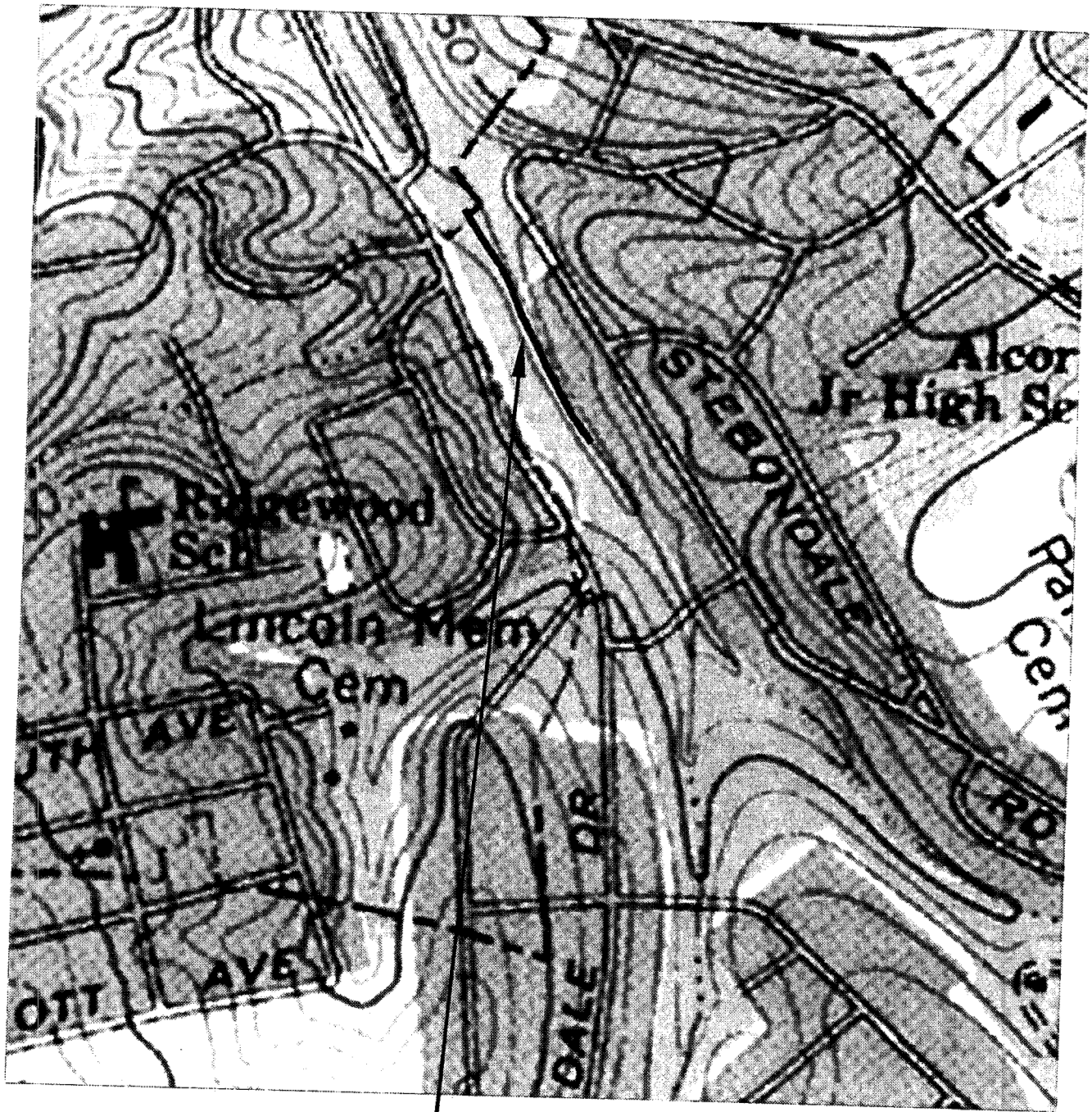
Proposed Stream
Restoration



**ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.**

GRAPHIC SCALE	
1000	2000
1 inch = 2000 feet	
Post Office Box 3744 Greenville, SC 29608 Phone: (864) 271-3040 Fax: (864) 235-9299	DRAWN BY: JNC DATE: 21dec2009 EPC PROJECT NO.: 09050

**SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 17 OF 18**



Proposed Stream
Restoration

**ENVIRONMENTAL
PERMITTING
CONSULTANTS, INC.**

GRAPHIC SCALE	
500	1000
1 inch = 1000 feet	
Post Office Box 3744 Greenville, SC 29608 Phone: (864) 271-3040 Fax: (864) 235-9299	DRAWN BY: JNC DATE: 21dec2009 EPC PROJECT NO.: 09050

**SAC-2007-0035-6IH
ST. MARK'S WOOD SUBDIVISION
RICHLAND COUNTY, SC
JULY 13, 2010
SHEET 18 OF 18**